

Abstract

An interventional catheter assembly has an operating head [400] and catheter system [300] that are inserted and navigated within a patient's body while an operator controls the system externally of the operating head. Fluidic communication is provided between the operating head and the external system controls, and rotation is provided to the operating head by means of an external drive system. Numerous system controls are provided, along with various operating systems, sealing assemblies, actuators, torque transfer systems, and the like are provided. Some systems and controls are provided in a control pod [200] and some controls, as well as displays, are provided in a console unit [100]. Control pod [200], catheter system [300] and operating head [400] may be provided as a sterile, single use interventional catheter system, while the console unit [100] may be provided as a multiple use device that communicates with the sterile, single use interventional catheter system during operation.